

Revised to November 7, 1945

STANDARDS AND SPECIFICATIONS
FOR BUILDING AND CONSTRUCTION MATERIALS,
FIXTURES, SUPPLIES, AND EQUIPMENT

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GENERAL INFORMATION

Commercial Standards, Simplified Practice Recommendations, Federal Specifications, and Bureau publications for building and construction materials, fixtures, supplies, and equipment are listed herein; and where the price is stated the publication can be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. Publications marked "Free" may be obtained without charge from the National Bureau of Standards, Washington 25, D. C. Federal Specifications are priced at 5 cents per copy except where otherwise indicated. The prices quoted are for delivery to addresses in the United States and its territories and possessions and in certain foreign countries which extend the franking privilege. In the case of all other countries, one-third the cost of the publication should be added to cover postage. Remittances should be made either by coupons (obtainable from the Superintendent of Documents in sets of 20 for \$1.00 and good until used), or by check or money order payable to the "Superintendent of Documents, Government Printing Office" and sent to him with order.

In the list of Federal Specifications beginning on page 5 asterisks are shown in front of certain specification symbols. These asterisks mean that lists of firms have been compiled from which products that are guaranteed to conform to the specifications may be bought. These lists are free upon request to the National Bureau of Standards.

An index of current Federal Specifications indicating the status of the specifications and showing the price of printed copies, has been published as Section IV, Part 1 of the Federal Standard Stock Catalog. Copies of this index may be purchased from the Superintendent of Documents, at 25 cents per copy.

Publications marked "OP" are out of print but usually may be consulted in technical libraries.

Series letters with serial numbers are used to designate Bureau publications:

BH = Building and Housing publication	CS = Commercial Standard
BMS = Building Materials and Structures Reports	LC = Letter Circular
	M = Miscellaneous Publication
C = Circular	R = Simplified Practice Recommendation

COMMERCIAL STANDARDS

<u>Title</u>	<u>Series</u>	<u>Price</u>
Blinds; venetian; wood-slat.....	CS 61-37	5¢
Board; structural fiber insulating (third edition).....	CS 42-43	5¢
Burners, oil, mechanical-draft, automatic (second edition).	CS 75-42	10¢
Burners, domestic, (underfeed type) (for) Pennsylvania anthracite (second edition).....	CS 48-40	5¢
Calking lead.....	CS 94-41	5¢
Colors and finishes for cast stone.....	CS 53-35	5¢
Colors for bathroom accessories.....	CS 63-38	5¢
Colors for kitchen accessories.....	CS 62-38	5¢
Colors for sanitary ware.....	CS 30-31	OP
Commercial standards and their value to business (third edition).....	CS 0-40	Free
Compressors, air, tank-mounted.....	CS 126-45	10¢
Coolers, drinking water, self-contained, mechanically refrigerated (mimeog).....	CS 127-45	Free
Doors; (entrance) factory fitted Douglas fir.....	CS 91-41	5¢
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Furnaces, forced-air, solid-fuel-burning.....	CS 109-44	10¢
Furnaces, gas floor - gravity circulating type.....	CS 99-42	5¢
Furnaces, oil-burning, floor (equipped with vaporizing pot-type burners).....	CS 113-44	10¢
Furnaces, warm-air (equipped with oil-burners, vaporizing, pot-type).....(E)	CS 104-43	10¢
Hardware, builders' (nontemplate) (second edition).....	CS 22-40	10¢
Hardware, builders' (template) (second edition).....	CS 9-33	5¢
Heaters (space); oil burning, flue-connected (with vaporizing-pot-type burners).....	CS 101-43	10¢
Homes; prefabricated.....	CS 125-45	5¢
Lining, closet, red cedar (aromatic).....	CS 26-30	OP
Lumber, hardwood dimension.....	CS 60-36	10¢
Lumber, tank stock; cedar, cypress and redwood.....	CS 92-41	5¢
Mirrors (second edition).....	CS 27-36	5¢

Commercial Standards - cont.

<u>Title</u>	<u>Series</u>	<u>Price</u>
Nipples, pipe; brass, copper, steel, and wrought iron (revision and consolidation of CS 5-29, CS 6-31, and CS 10-29).....	CS 5-40	5¢
Paneling, solid hardwood wall.....	CS 74-39	5¢
Pipe, bituminized-fiber; drain and sewer.....	CS 116-44	5¢
Pipe; lead.....	CS 95-41	5¢
Plumbing fixtures; cast-ironware, enameled sanitary.....	CS 77-40	5¢
Plumbing fixtures, earthenware (vitreous-glazed).....	CS 111-43	5¢
Plumbing fixtures, staple porcelain (all-clay).....	CS 4-29	OP
Plumbing fixtures, staple vitreous china (third edition)...	CS 20-42	10¢
Plywood, Douglas fir (sixth edition).....	CS 45-45	10¢
Plywood (hardwood and eastern red cedar (second edition)...	CS 35-42	10¢
Plywood; hemlock, western.....	CS 122-45	5¢
Refrigeration-condensing units; electric, commercial (second edition).....	CS 107-45	10¢
Seats for water-closet bowls, staple.....	CS 29-31	OP
Shingles, wood (fourth edition).....	CS 31-38	5¢
Stair treads and risers, hardwood.....	CS 89-40	5¢
Tents, cotton fabric, tarpaulins and covers.....	CS 28-32	OP
Traps and bends; lead.....	CS 96-41	5¢
Trim and molding; hardwood interior.....	CS 76-39	5¢
Unions, standard weight, malleable iron or steel screwed...	CS 7-29	OP
Veneers, walnut.....	CS 64-37	5¢
Wall paper.....	CS 16-29	5¢
Wallboard; fiber, homogeneous.....	CS 112-43	5¢
Wool; mineral, blankets, blocks, insulating cement, and pipe insulation for heated industrial equipment.....	CS 117-44	10¢
Wool; mineral, loose, granulated or felted form, in low- temperature installations.....	CS 105-43	5¢

While the supply lasts, mimeographed copies of the above Commercial Standards are available without charge from the Division of Trade Standards, National Bureau of Standards, Washington 25, D. C.

SIMPLIFIED PRACTICE RECOMMENDATIONS

<u>Title</u>	<u>Series</u>	<u>Price</u>
Aggregates, coarse (crushed stone, gravel and slag).....	R 163-39	5¢
Asbestos paper; and asbestos millboard.....	R 19-37	5¢
Asphalt.....	R 4-36	5¢
Asphalt roll roofing and asphalt-and-tar-saturated felt products.....	R 213-45	5¢
Bars, steel, reinforcing.....	R 26-42	5¢
Boilers, range; and expansion tanks.....	R 8-42	5¢
Boilers, range (non-ferrous).....	R 181-41	5¢
Boilers, steel, heating, horizontal firebox.....	R 157-37	5¢
Brick, common, and rough and smooth face brick.....	R 7	5¢
Brick, paving, vitrified.....	R 1-40	5¢
Brick, sand-lime.....	R 38-37	5¢
Clay sewer pipe and fittings (mimeog).....	R 211-45	Free
Concrete units, building.....	R 32-38	5¢
Conductors, copper; (for building purposes) (mimeog).....	R 180-41	Free
Doors, hollow metal single acting swing; frames and trim....	R 82-28	5¢
Doors, kalamein, single acting swing; frames and trim.....	R 83-28	5¢
Eaves trough, conductor pipe, and fittings, and ridge rolls.	R 29-42	5¢
Fencing, woven-wire; and woven-wire fence packages.....	R 9-28	5¢
Fittings, pipe, (grey cast iron, malleable iron and brass or bronze) (mimeog).....	R 185-42	Free
Fittings, pipes and ducts for warm-air heating and air conditioning.....	R 207-45	10¢
Fittings, solder-joint, cast brass (mimeog).....	R 212-45	Free
Forms for concrete joist construction floors.....	R 87-32	5¢
Hardware, builders (nontemplate)(Standards for Builders Hardware are set forth in Commercial Standard CS22-40).	R 18	5¢
Insulating-board, structural (vegetable fiber).....	R 179-42	5¢
Joists, steel, open web.....	R 94-30	5¢
Lath, metal (expanded and sheet) and metal plastering accessories.....	R 3-44	5¢
Lights; sidewalk, floor, and roof.....	R 49	5¢
Lumber, softwood (includes shingles and mouldings).....	R 16-39	20¢
Nails, wire, copper.....	R 150-34	5¢
Paints, varnishes, and related products (colors and containers).....	R 144-43	5¢
Partitions, metal; for toilets and showers.....	R 101-40	5¢
Pipe, wrought-iron and wrought-steel; and valves and fittings	R 57-32	5¢
Plumbing fixtures, hospital.....	R 106-41	5¢
Plumbing fixtures, staple vitreous china (included in Commercial Standard CS20-42).....	R 52	5¢
Radiators, cast-iron (mimeog).....	R 174-43	Free
Refrigerator, ice compartment sizes.....	R 109-29	10¢
Roofing, iron and steel.....	R 78-28	5¢
Roofing ternes.....	R 30-42	5¢
Screen cloth, insect, wire.....	R 122-31	5¢
Shades, cloth, window.....	R 199-43	5¢
Slate, roofing (mimeog).....	R 14-28	Free
Slate, structural.....	R 13-28	10¢
Steel, sheet.....	R 28-29	10¢
Stove pipe and accessories.....	R 190-42	5¢

Simplified Practice Recommendation - cont.

<u>Title</u>	<u>Series</u>	<u>Price</u>
Tacks, cut; and small cut nails.....R	47-28	10¢
Tanks, storage, hot water (mimeog).....R	25	Free
Tile, building, hollow (mimeog).....R	12	Free
Tiles, clay; for floors and walls.....R	61-44	10¢
Traps, lavatory and sink, brass (mimeog).....R	21	Free
Windows, steel, solid section (mimeog).....R	72	Free
Simplified practice, its purpose and application (mimeog)..LC	590	Free

Where no price is shown, publications are available in mimeographed form only from the Division of Simplified Practice, National Bureau of Standards, Washington 25, D. C.

FEDERAL SPECIFICATIONS

Index of Federal Specifications for Building and Construction Materials, Fixtures, Supplies, and Equipment arranged by Commodity Groups

*List of Willing-to-Certify Sources of Supply has been compiled.

	<u>Specification</u> <u>Symbol</u>
<u>ANIMAL PRODUCTS</u>	
Cushion; carpet and rug, hair-felt.....	C-C-811
Felt; hair.....	*C-F-201c
Glue; animal (for) woodworking.....	*C-G-451
Glue; casein-type, water-resistant.....	C-G-456
Glue; liquid.....	C-G-463

<u>CABLE AND WIRE</u>	
Cable, armored (including lead covered types and armored cord); 0 to 600-volt service.....	*J-C-71a
Cable, Cord, and Wire; electric, flexible, cotton-covered (general service).....	J-C-86 (10¢)
Cable and Wire; rubber-insulated, building-type (0 to 5000- volt service).....	*J-C-103 (10¢)
Cable and Wire; rubber-insulated (for) other than building- purposes, superaging-grade (0 to 8000-volt service).....	*J-C-121
Cable and Wire; varnished-cloth-insulated (0 to 5000-volt service).....	J-C-138
Cable-Units; battery and starter.....	J-C-231

<u>CANVAS-ARTICLES</u>	
Paulins and Covers; duck (Tarpaulins).....	*K-P-146

<u>CHEMICALS</u>	
Acid; hydrochloric (muriatic), technical-grade.....	*O-A-86
Calcium-Chloride; hydrated, technical-grade.....	*O-C-106a
Fire-Extinguishers; chemical, hand, carbon-tetrachloride type..	*O-F-351
Fire-Extinguishers; chemical, hand, soda-and-acid type.....	*O-F-355a
Fire-Extinguishers; hand, portable, foam-type.....	*O-F-361
Fire-Extinguishers; hand, portable, pump-tank-type.....	O-F-367
Fire-Extinguishing-Liquid; carbon-tetrachloride base.....	*O-F-380a
Flux, soldering; paste.....	O-F-506
Paste, linoleum.....	*O-P-106

<u>CLEANING AND POLISHING MATERIALS</u>	
Cloth; abrasive, aluminum-oxide.....	*P-C-451
Compound; cleaning, soap-abrasive-type (for painted surfaces)..	*P-C-565
Compound; sweeping.....	*P-C-591a
Oil, floor; mineral.....	*P-O-361
Paper; abrasive, artificial, waterproof.....	*P-P-101

CLEANING AND POLISHING MATERIALS (Cont.)Specification
Symbol

Paper; flint.....	*P-P-111
Paper; garnet.....	*P-P-121
Paper; garnet, waterproof.....	*P-P-126
Polish; furniture, liquid.....	*P-P-552
Polish; metal.....	*P-P-556a
Powder; scouring (for) floors.....	*P-P-591
Powder; scouring (for) highly-polished glass.....	*P-P-596a
Soap-Powder.....	*P-S-606a
Soap; toilet, powdered (for) dispensers.....	*P-S-626a
Soap-Borax-Compound; toilet (for) dispensers.....	*P-S-628
Wax, floor; solvent-type liquid (with resins).....	*P-W-134
Wax, floor; water-emulsion.....	*P-W-151a
Wax, general-purpose; solvent-type, liquid and paste (for floors, furniture, etc.).....	*P-W-158

COAL AND PRODUCTS

Coke; foundry.....	*Q-C-571a
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COAL-TAR AND PRODUCTS

Naphthalene; balls and flakes.....	*R-N-91
Pitch; coal-tar (for) mineral-surfaced built-up roofing, waterproofing and dampproofing.....	*R-P-381
Tar; (for) joint filler.....	*R-T-111
Tars; (for use in) road-construction.....	*R-T-143

COOKING AND HEATING APPARATUS, FURNACES AND OVENS
(non-electric)

Forges; portable, coal-burning.....	S-F-571
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CORDAGE, TWINE, AND PRODUCTS

Cord, sash; cotton, braided.....	*T-C-571a
Mops; cotton.....	*T-M-561a

ELECTRIC-APPARATUS

Bases; cut-out (for) enclosed-cartridge, open-link, and plug-fuses.....	*W-B-81a
Batteries and Cells; dry.....	*W-B-101a
Batteries, storage; ignition, lighting and starting.....	W-B-131b
Blasting-Apparatus (Machines, blasting; galvanometers and rheostats for testing blasting circuits and machines).....	W-B-411
Boxes and Outlet-fittings, floor; (for) rigid-steel-conduit and electric-metallic-tubing (steel).....	W-B-616
Cleaners; vacuum; electric, portable.....	W-C-421a
Clock-Systems; electric.....	W-C-471a
Conduit and Fittings; asbestos-cement (for) electrical-purposes	W-C-571
Conduit and Fittings; fiber, bituminized.....	W-C-581
Connectors, wire; pressure, solderless (for electric cable and wire).....	W-C-601a

ELECTRIC-APPARATUS (Cont.)SpecificationSymbol

Drills; electric, portable (exclusive of high-frequency types).	W-D-661
Electrodes; carbon, amorphous.....	W-E-441
Fans; electric; bracket and desk types, rigid-blades (for shore use).....	W-F-101a
Fire-Alarm Systems; electric, hand-operated.....	W-F-391
Fire-Alarm Systems; electric, hand-operated, shunt-type.....	W-F-396
Fittings; cable and conduit.....	W-F-406
Flashlights; electric, hand (without batteries).....	*W-F-421a
Fuses; cartridge, inclosed, nonrenewable.....	W-F-791a
Fuses; cartridge, inclosed, renewable (fusible links not separately inclosed); and Renewable-Links therefor.....	*W-F-803a
Fuses; cartridge, inclosed, renewable (fusible links separately inclosed).....	*W-F-805
Fuses; plug, nonrenewable.....	*W-F-831
Grinders; bench, electric.....	W-G-656
Grinders; electric, portable.....	W-G-663
Heaters, electric; water, storage, domestic.....	W-H-196
Hot-Plates; electric.....	W-H-636a
Irons, soldering; electric.....	W-I-681a
Lamps; electric, incandescent, large, tungsten-filament.....	*W-L-101e
Lamps; electric, incandescent, large, tungsten-filament.....	W-L-101e 1943
Lamps; electric, incandescent, miniature, tungsten-filament....	W-L-111b
Lamps; electric, incandescent, miniature, tungsten-filament....	W-L-111b 1945
Lamp-Auxiliaries; fluorescent.....	W-L-131
Lamp-Auxiliaries; fluorescent.....	W-L-131 1942
Machines, floor-polishing and scrubbing; electric.....	W-M-46a
Outlet-Bodies; iron (cast or malleable), cadmium or zinc- coated with covers and accessories (for shore use).....	W-O-806
Outlet-Boxes; steel, cadmium or zinc-coated, with covers and accessories.....	W-O-821a
Panelboards; equipped with automatic-circuit-breakers.....	*W-P-131a
Panelboards; equipped with fuse-connections or switches and fuse-connections.....	W-P-146
Pullers; fuse.....	W-P-796
Raceways and Fittings; metallic, surface.....	W-R-32
Raceways and Fittings; metallic, underfloor.....	W-R-36
Raceways and Fittings; nonmetallic, underfloor.....	W-R-41
Ranges; electric, domestic, cabinet-type.....	W-R-101
Receptacles (convenience-outlets); attachment-plugs, current-taps, and connectors.....	*W-R-151
Switches; knife, open-type, front- and rear-connected.....	*W-S-871
Switches; snap, miscellaneous.....	W-S-890
Switches; snap, multiple-type and combination-devices, flush-type, with wall-plates.....	*W-S-893
Switches; snap, single-unit, interchangeable, flush-type with wall-plates.....	*W-S-896
Transformers; distribution, single-phase, 60-cycles (100 KV-A and below; 15,000 volts and below).....	W-T-631 (10¢)
Units, heating, electric; replacement (for water-heaters, ranges, and hot-plates).....	W-U-546
Watchmen's-Report-Apparatus.....	W-W-101

FURNITURE

Specification

Symbol

Beds; hospital.....	*AA-B-201
Beds; hospital (adjustable spring bottom).....	*AA-B-211b
Cabinets; filing, insulated, fire-resisting.....	AA-C-23
Cabinets; stationery, storage, and clothing (steel).....	*AA-C-31
Cases; transfer, steel.....	*AA-C-121
Chairs; bent-wood.....	*AA-C-281
Chairs; folding, metal.....	*AA-C-291
Chairs; office, wood.....	*AA-C-311 (10¢)
Chairs; operating, dental, motorless.....	AA-C-326
Chairs, wheel; invalid.....	AA-C-346a
Costumers; wood.....	*AA-C-556
Cots; folding, canvas.....	*AA-C-571a
Cots; folding, hospital, steel.....	AA-C-581a
Desks; steel.....	*AA-D-191
Desks; wood.....	*AA-D-201
Furniture and Cabinets; office, sectional, steel.....	*AA-F-791b (10¢)
Furniture and Cabinets; office, sectional, wood.....	*AA-F-801
Lockers; clothes, steel.....	*AA-L-486
Refrigerators; electric, portable.....	AA-R-211a
Safes; burglar-resisting.....	*AA-S-71
Safes; insulated.....	*AA-S-81a
Settees; wood.....	*AA-S-256
Shelving; steel, storage.....	*AA-S-271a
Stands; dictionary.....	*AA-S-671
Stools; foot.....	AA-S-691
Stools; wood.....	*AA-S-701 (10¢)
Tables; office, steel.....	*AA-T-91
Tables; and Typewriter-Stands, wood.....	*AA-T-101
Wardrobes; wood.....	*AA-W-131

MOTORS

Motors; alternating-current, fractional-horsepower, single-phase and universal.....	CC-M-636
Motors; alternating-current, integral-horsepower.....	CC-M-641 (10¢)

GLASS AND GLASSWARE

Chimneys and Globes (lamp and lantern); glass.....	*DD-G-311
Glass; flat (for) glazing purpose.....	*DD-G-451
Glass; flat, glazing (for) transmitting not less than 25% of ultra-violet radiation at wave length 302 millimicrons.	DD-G-476
Glasses, gage; reflex and round, tank (for pressures under 125 pounds).....	DD-G-496
Glasses, gage; round, boiler, (for pressures 125 pounds and over).....	DD-G-511

HARDWARESpecificationSymbol

Bearings; ball.....	FF-B-171 (20¢)
Bearings; roller.....	FF-B-186 (10¢)
Bolts, lag; steel (lag-screws).....	*FF-B-561
Bolts; Nuts; Studs; and Tap-Rivets (and material for same).....	*FF-B-571a
Casters; metal-chair.....	*FF-C-81
Casters; truck.....	*FF-C-86
Casters, wood-chair.....	*FF-C-91a
Dispensers; soap.....	*FF-D-396b
Hardware, builders'; locks and lock-trim.....	*FF-H-106
Hardware, builders'; shelf and miscellaneous.....	*FF-H-111 (10¢)
Hardware, builders'; hinges.....	*FF-H-116b (10¢)
Hardware, builders'; door-closers.....	*FF-H-121a
Hardware and Fittings; (for) lavatory partitions and inclosures	*FF-H-136
Nails; Spikes; Staples; and Tacks.....	*FF-N-101 (10¢)
Padlocks.....	*FF-P-101b
Pins; cotter, split.....	*FF-P-386a
Pulleys; eye, single sheave, with attachment for balkan frame, (for) hospitals.....	FF-P-806
Screws; machine; (including Screws, set).....	*FF-S-91
Screws; wood.....	*FF-S-111
Turnbuckles.....	*FF-T-791
Wool; steel.....	*FF-W-556

INSTRUMENTS

Boards; drawing.....	GG-B-546
Clocks; pendulum (for) general purposes.....	*GG-C-451
Clocks; synchronous-motor (for) general purposes.....	*GG-C-466
Gages; pressure, (for) direct-stem-mounting.....	*GG-G-66
Gages; pressure and vacuum (for) air, ammonia, oil, steam, and water.....	*GG-G-76
Hydrometers; syringe (for lead-acid storage batteries).....	GG-H-941
Instruments; drawing, nickel-silver (first-grade).....	*GG-I-531a
Triangles; plastic, transparent.....	*GG-T-671a
T-Squares; plastic, wood, and wood-and-plastic.....	*GG-T-711b

INSULATING MATERIALS

Brick; fire-clay.....	*HH-B-671b
Brick; silica.....	*HH-B-681
Cement; silica.....	HH-C-176
Clay; fire, ground.....	*HH-C-451b
Compound; plumbing-fixture-setting.....	HH-C-536
Cork; compressed (corkboard) (for thermal insulation).....	*HH-C-561b
Cork; granulated, insulating.....	*HH-C-571a
Cork-Composition; gasket and sheet.....	HH-C-576
Cotton-Fabric; woven, asphalt-saturated.....	*HH-C-581a
Cotton-Fabric; woven, coal-tar-saturated.....	HH-C-591

INSULATING MATERIALS (Cont.)

Specification

Symbol

Felt; asphalt-saturated (for) flashings, roofing, and waterproofing.....	*HH-F-191a
Felt; coal-tar-saturated (for) roofing and waterproofing.....	*HH-F-201
Filler, expansion-joint, preformed; nonextruding-bituminous-fiber-type (for concrete).....	HH-F-334
Filler, expansion-joint, preformed; nonextruding and resilient-types (for concrete).....	HH-F-341
Gaskets; asbestos-copper, corrugated.....	*HH-G-71
Gaskets; asbestos, metallic-cloth.....	*HH-G-76a
Gaskets; metallic-encased.....	*HH-G-101
Gaskets; plumbing-fixture-setting.....	HH-G-116
Gaskets; rubber (natural or synthetic), molded sheet, and strip.....	*HH-G-156a
Insulation; bat or strip-form and loose-fill.....	HH-I-521b
Insulation; cotton batts.....	HH-I-528
Insulation (glass-fiber); semi-rigid.....	HH-I-556
Insulation; laminated-asbestos.....	HH-I-561b
Insulation (vegetable or wood-fiber); blanket, felt, and loose-fill.....	HH-I-571a
Insulation, vermiculite; block and pipe-covering (molded).....	HH-I-578a
Linings, brake; (automotive-use).....	*HH-L-361a
Magnesia; block, cement, and pipe-covering (molded).....	*HH-M-61a
Millboard; asbestos.....	*HH-M-351a
Mineral-Wool, impregnated; blanket, block, and pipe-covering (molded), (for low temperatures).....	HH-M-371a
Mortar; air-setting, refractory, bonding, (wet and dry types)..	HH-M-611a
Mortar; heat-setting, refractory.....	HH-M-622
Packing; asbestos, metallic-cloth, sheet and tape.....	*HH-P-31a
Packing; asbestos, rod, braided.....	HH-P-34a
Packing; asbestos, rod, high-pressure.....	*HH-P-36a
Packing; asbestos, rope and wick.....	*HH-P-41
Packing; asbestos, sheet, compressed.....	*HH-P-46a
Packing; asbestos, valve-stem.....	*HH-P-51a
Packing; diaphragm.....	*HH-P-61c
Packing; fabric, condenser-tube.....	*HH-P-71
Packing; fiber, hard, sheet.....	*HH-P-91a
Packing; fiber (for) lubricating and fuel-oil.....	*HH-P-96b
Packing; flax, hemp, or cotton.....	*HH-P-106b
Packing; hydraulic.....	*HH-P-112a
Packing; jute, twisted.....	HH-P-117
Packing; metallic, flexible.....	*HH-P-126b
Packing; metallic, flexible, condenser-tube.....	HH-P-128
Packing; metallic and nonmetallic, plastic.....	*HH-P-131a
Packing; rubber, cloth-insertion.....	*HH-P-151b
Packing; semimetallic.....	*HH-P-166a
Packing; spiral, gland, low-pressure.....	*HH-P-171a
Phenolic-Condensation-Products; laminated (for electric purposes).....	HH-P-256
Pipe-Covering; cork, molded.....	HH-P-381
Pipe-Covering and Cement; mineral or rock-wool.....	HH-P-386a
Refractories; fire-clay, plastic.....	*HH-R-191
Tape; friction.....	*HH-T-101a
Tape; rubber, insulating.....	*HH-T-111b
Tubing; flexible, nonmetallic.....	*HH-T-791a

KNIT GOODS, NETTING, AND WEBBINGSymbol

Gloves; working, cotton, with-leather-palm.....	*JJ-G-451
Hose; fire, linen, unlined.....	JJ-H-571

LEATHER AND LEATHER-GOODS

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Copper; bars, plates, rods, shapes, sheets, and strips.....	*QQ-C-501a
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Iron and Steel; sheet, zinc-coated (galvanized).....	*QQ-I-716
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Lead; sheet.....	*QQ-L-201
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MINERALS AND PRODUCTS (nonmetallic)SpecificationSymbol

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Asphalt; cut-back (for) road-work.....	*SS-A-671a
Asphalt; emulsion (for) road-work.....	*SS-A-674a
Asphalt; petroleum, type PAF-1-25, (for) joint-filler (squeegee or pouring method).....	*SS-A-696
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Cement; masonry.....	*SS-C-181b
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Lime; hydraulic, hydrated.....	*SS-L-361
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Mineral-Filler; (for) sheet asphalt or asphaltic concrete pavements (Portland cement, limestone dust and dolomite dust).....	*SS-M-351
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MINERAL AND PRODUCTS (nonmetallic)(Cont.)SpecificationSymbol

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Roofing; asphalt and asbestos-prepared, mineral-surfaced.....	*SS-R-511
Roofing and Shingles; asphalt-prepared, mineral-surfaced.....	*SS-R-521
Sand; (for) cement-mortar-bed, (for) brick, stone-block or wood-block pavements.....	*SS-S-51
Sand; (for) grout-filler, brick and stone-block pavements.....	*SS-S-61
Sand; (for use in) sheet asphalt of bituminous concrete pavements.....	*SS-S-71a
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Chrome-Yellow and Chrome-Orange; dry (paint pigment).....	*TT-C-290
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Compound, calking; plastic (for masonry and other structures)..	*TT-C-598
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Enamel; lusterless, olive-drab (primarily for nonmilitary-use),	*TT-E-514
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Varnish; interior.....	*TT-V-71a
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White-Lead; basic-carbonate, dry, paste-in-oil, and semipaste containing volatile-thinner.....	*TT-W-251b
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Oil; fuel, (for) oil-burners.....	*VV-O-326
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PIPE, PIPE-FITTINGS, PLUMBING-FIXTURES, TUBES, AND TUBING (metallic)

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Conduit; steel, rigid, enameled.....	*WW-C-571
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Flange-Dimensions, standard; (classes 125 and 250 cast-iron flanges; classes 150, 250, and 300 bronze-flanges), (for land use).....	WW-F-406a
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Pipe, Bends and Traps; lead (for) plumbing and water-distribution.....	WW-P-325
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Pipe-Fittings; cast-iron, drainage.....	*WW-P-491
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Plumbing-Fixtures; (for) land use. (Formed-Metal Plumbing-Fixtures).....	WW-P-542
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Tubes; boiler, steel.....	*WW-T-731a
Tubes; condenser and ferrule-stock, Admiralty-metal.....	*WW-T-756a
Tubing, aluminum (Al-2); round, seamless.....	*WW-T-783a
Tubing, aluminum (Al-24) (aluminum-copper-magnesium (1.5%) -manganese); round, seamless.....	WW-T-785
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Tubing, aluminum-alloy (Al-52) (aluminum-magnesium-chromium); round, seamless.....	WW-T-787
Tubing, aluminum-alloy (Al-3) (aluminum-manganese), round, seamless.....	*WW-T-788a
Tubing, aluminum-alloy (Al-61) (aluminum-manganese-silicon); round, seamless.....	WW-T-789

PIPE, PIPE-FITTINGS, PLUMBING-FIXTURES, TUBES, AND TUBING
(metallic), (Cont.)

Specification
Symbol

Tubing, aluminum-alloy (Al-53), (aluminum-magnesium-silicon-chromium); round, seamless.....	WW-T-790
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Valves, brass or bronze; angle and globe, 150-pounds, threaded and flanged, (for land use).....	*WW-V-51
Valves, cast-iron, gate; 125- and 250-pound, screwed and flanged (for land use).....	*WW-V-58
Valves, cylinder; oxygen (for standard and industrial cylinders).....	*WW-V-61
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Mats, Floor; rubber, link-type.....	ZZ-M-46
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Matting; rubber (for use around electrical apparatus or circuits not exceeding 3,000 volts to ground).....	*ZZ-M-81
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Shades, window; rollers, slats, cords, and accessories.....	*DDD-S-251a

TOOLS

Specification

Symbol

Goggles; eyecup, protective, impact-resisting (chippers' grinders', etc.).....	*GGG-G-501b
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Blinds; venetian, wood-slat.....	LLL-B-441
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Charcoal.....	LLL-C-251
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Turpentine; wood (destructively-distilled), (for) paint.....	*LLL-T-792a

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Address: No. _____ Street: _____

City: _____ State: _____

